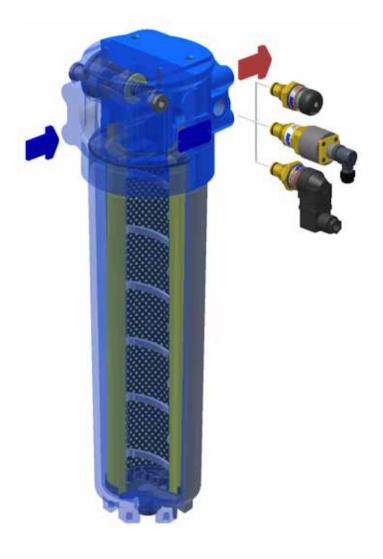


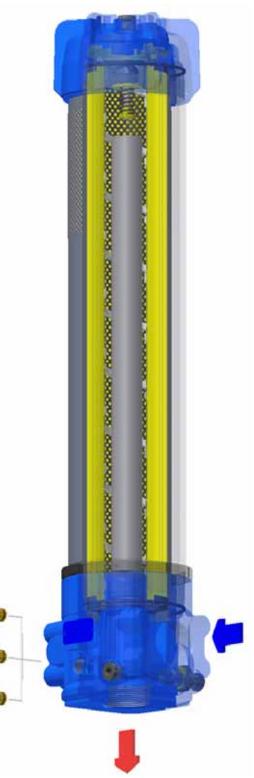
LMP

SERIES

400 - 401 430 - 431

Working pressure 60/50 bar

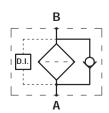




Style **S**

B D.I.

Style **B**



Technical data

Filter housing (Materials)

• Head: Anodised Aluminium

· Housing: Anodised Aluminium

· Bypass valve: Steel

Pressure

LMP 400 lenght: 2 - 3 - 4

Working pressure: 60 bar (6 MPa)Test pressure: 90 bar (9 MPa)

• Burst pressure: 180 bar (18 MPa)

• Pulsed pressure fatigue test: 1.000.000 cycles with pressure from 0 to 60 bar (6 MPa)

LMP 400 lenght: 5 - 6

Working pressure: 50 bar (5 MPa)Test pressure: 75 bar (7,5 MPa)

• Burst pressure: 150 bar (15 MPa)

• Pulsed pressure fatigue test: 1.000.000 cycles with pressure from 0 to 50 bar (5 MPa)

Temperature

• From -25°C to +110°C

Bypass valve

- Opening pressure 3.5 bar ±10%
- Other opening pressures on request.

Δp Elements type

• Series N and W elements: 20 bar

• Oil flow from exterior to interior.

Seals

Standard NBR series AOptional FPM series V

Weights (kg)

Length

LMP400 - 2 6.7LMP400 - 3 7.3

LMP400 - 4 8.1LMP400 - 5 11.3

• LMP400 - 6 14.4

Volumes (dm3)

Length

LMP400 - 2
LMP400 - 3
LMP400 - 4
LMP400 - 5
9.5

• LMP400 - 6 13.5

Connections

In-line Inlet/Outlet LMP 400 - 430 90° Inlet/outlet LMP 401 - 431

Compatibility

Housings compatible with:
 Mineral oils to ISO 2943 - aqueous emulsions synthetic fluids, water and glycol.

- The filter elements are compatible with: Mineral oils to ISO 2943, Synthetic fluids Aqueous emulsions, water and glycol (series W required).
- NBR seals series A, compatible with: Mineral oils to ISO 2943 - aqueous emulsions synthetic fluids, water and glycol.
- V series FPM seals, compatible with: Synthetic fluids type HS-HFDR-HFDS-HFDU To ISO 2943

Filter Element Area

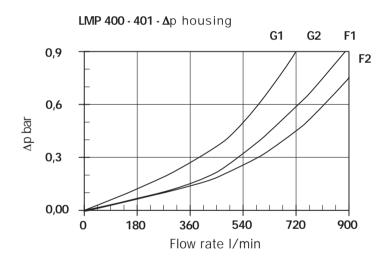
Filter element in stainless steel mesh

	zenga.				
Туре	2	3	4	5	6
CU 400	l .			10200	
	Values expressed in cm ²				

Filter housing Δp pressure drop

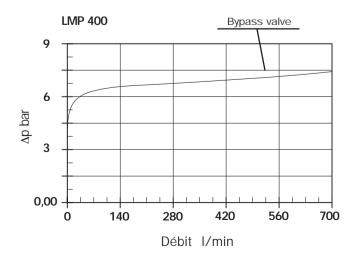
The curves are plotted utilising mineral oil with density of 0.86 kg/dm³ to ISO 3968.

Δp varies proportionally with density.

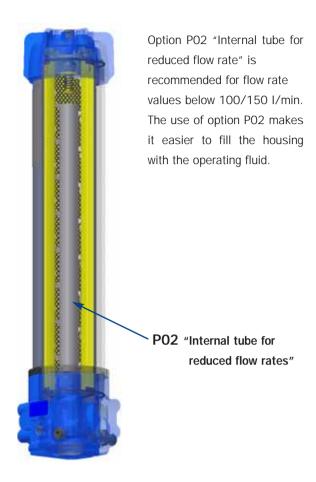


Valves

Bypass valve pressure drop



Option PO2 for LMP 430/431



Recommended maximum flow rate

Recommended maximum flow rate for filters installed on lubrication lines, return or in-line filters is defined by the maximum oil velocity in the connections. For filters mounted on Off-Line lines the maximum recommended flow rate is defined by the pressure drop of the filter element.

Filter for pressurised lubrication, max. oil velocity 2.5 m/sec. Return or in-line filter, max oil velocity 5 m/sec.

	Connections			
Oil velocity	1 1/2"	2″	2 1/2"	
2,5 m/sec.	120	300	500	
5 m/sec.	240	600	1000	

Flow rate I/min.

Off-Line filter, filter element recommended maximum pressure drop must be equal to $\Delta p~0.2\,\div\,0.3$ bar.

Recommended maximum flow rate

- Pressure drop of filter assembly equal to $\Delta p \ 0.6$ bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.
- Connections of filter under test G 2 1/2".

Filter element type	Flow rate I/min Series N	Filter length
A03	180	
A06	215	
A10	325	2
A16	360	2
A25	460	
M25	660	
P10	470	
P25	500	
AO3	245	
A06	295	
A10	420	3
A16	460	3
A25	540	
M25	700	
P10	580	
P25	600	
A03	305	
A06	350	
A10	480	4
A16	510	7
A25	575	
M25	720	
P10	600	
P25	630	
AO3	405	
A06	445	
A10	550	5
A16	600	Ü
A25	660	
M25	740	
P10	640	
P25	670	
A03	450	
A06	520	
A10	610	4
A16	630	6
A25	670	
M25	740	
P10	650	
P25	670	

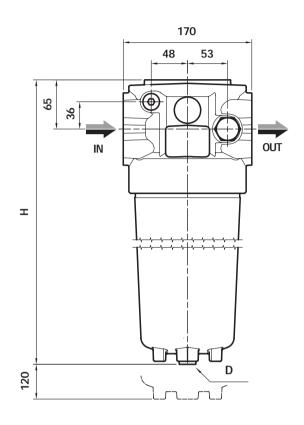
Dimensions

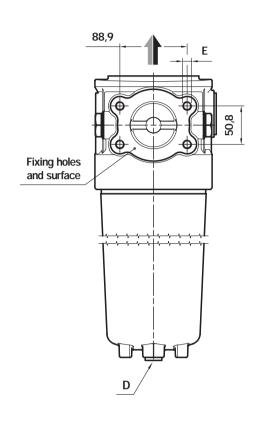
LMP 400

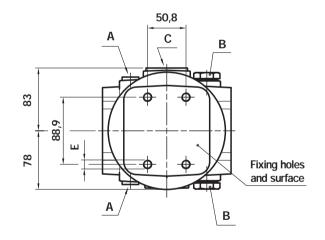
Length 2-3-4

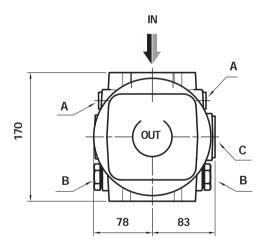
LMP 401

Length 2-3-4









Flanged IN/OUT connections	E Depth 20 mm
2" SAE 3000 psi/M	M12
2 1/2" SAE 3000 psi/M	M12
2" SAE 3000 psi/UNC	1/2" UNC
2 1/2" SAE 3000 psi/UNC	1/2" UNC

Threaded IN/OUT connections	E Depth 20 mm		
G 1 1/2"	M12		
G 2"	M12		
1 1/2" NPT	1/2" UNC		
2" NPT	1/2" UNC		
SAE 24 - 1 7/8"- 12 UN	1/2" UNC		
SAE 32 - 2 1/2"- 12 UN	1/2" UNC		

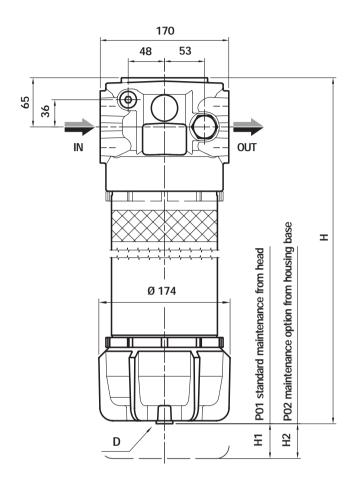
	Length Filter	H mm	
	2	378	
	3	478	
	4	578	
Α	Breather pl	lug - G 3/8	3" - Ch. 8
В	Indicator c	onnection -	Plug T2 - Ch. 30
С	Bypass val	lve - Ch. 17	

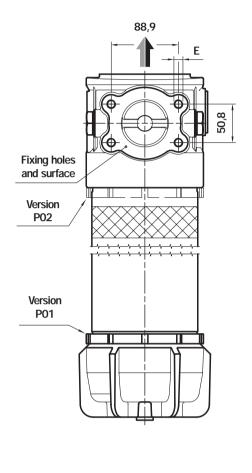
LMP 400

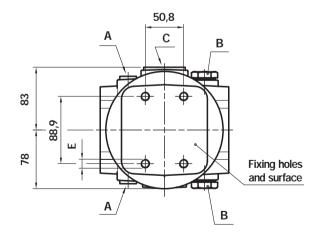
Length 5 - 6

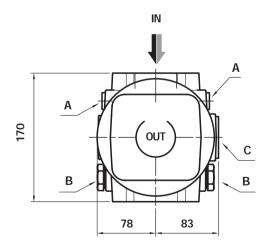
LMP 401

Length 5 - 6









Length Filter	H mm	H1 mm	H2 mm
5	828	120	660
6	1158	120	990

Α	Breather	plug	- G	3/8"	-	Ch.	8
---	----------	------	-----	------	---	-----	---

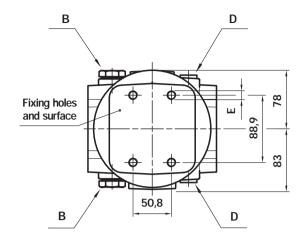
B Indicator connection - Plug T2 - Ch. 30

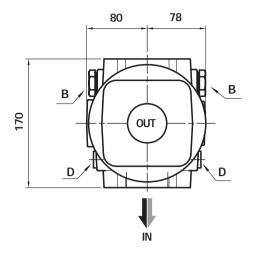
D Oil drain plug - G 3/8" - Ch. 8

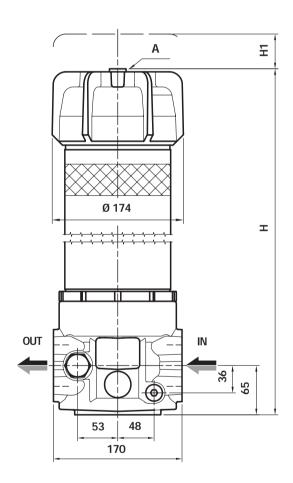
C Bypass valve - Ch. 17

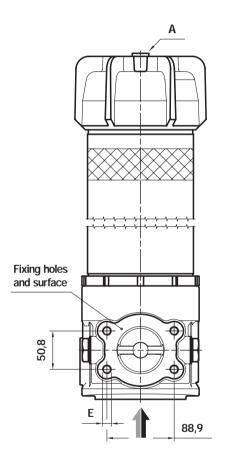
Length 5 - 6

Length 5 - 6









Flanged IN/OUT connections	E Depth 20 mm
2" SAE 3000 psi/M	M12
2 1/2" SAE 3000 psi/M	M12
2" SAE 3000 psi/UNC	1/2" UNC
2 1/2" SAE 3000 psi/UNC	1/2" UNC

Flanged IN/OUT connections	E Depth 20 mm
G 1 1/2"	M12
G 2"	M12
1 1/2" NPT	1/2" UNC
2" NPT	1/2" UNC
SAE 24 - 1 7/8"- 12 UN	1/2" UNC
SAE 32 - 2 1/2"- 12 UN	1/2" UNC

Α	Breather	plug	- G	3/8"	- Ch.	8
---	----------	------	-----	------	-------	---

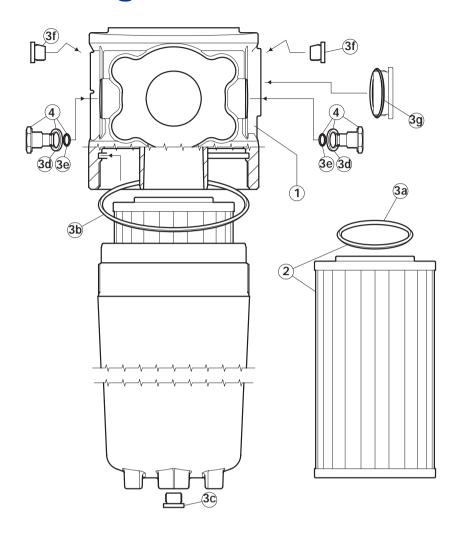
B Indicator connection - Plug T2 - Ch. 30

D Oil drain plug - G 3/8" - Ch. 8

Length Filter	H mm	H1 mm
5	828	660
6	1158	990

LMP400/401 spare parts

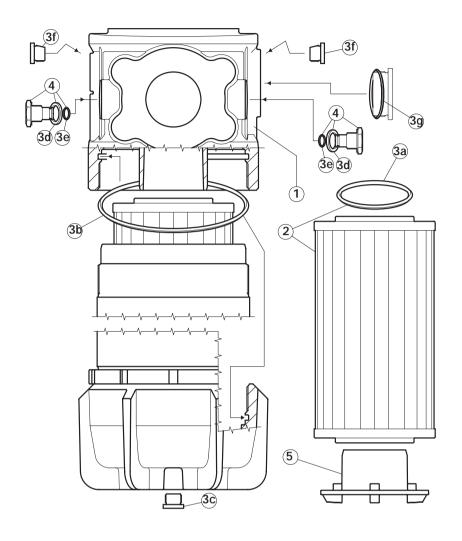
Length 2, 3, 4



Pos.	Description	Qty	FILTER Series LMP 400/401 2 - 3 - 4	
1	Filter assembly	1	See order table	
2	Filter Element	1	See order table	
3	Seals kit	1	NBR 02050391	FPM 02050392
3a	Filter element O-Ring	1	O-R 3237 Ø 59,99 x 2,62	
3b	O-Ring for housing	1	O-R 4525 Ø 132,95 x 3,53	
3c	Oil drain plug	1	G 3/8" with seal	
3d	Bonded seal	2	01030058	01030046
3e	O-Ring	2	O-R 2050 Ø 12,42 x 1,78	
3f	Breather plug	2	01029436	
3g	By-pass plug O-Ring	1	O-R 3193 Ø 48,90 x 2,62	
4	Indicator connection plug	2	T2H	T2V
-	Indicators	1	See ord	ler table

LMP 400/401 spare parts

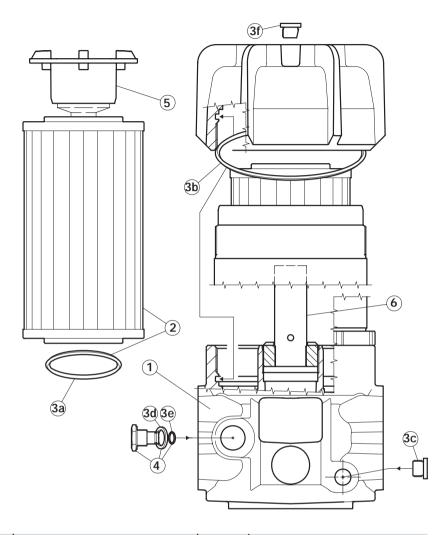
Length 5, 6



Pos.	Description	Qty	FILTER Series LMP 400/401 5 - 6	
1	Filter assembly	1	See order table	
2	Filter Element	1	See order table	
3	Seals kit	1	NBR 02050393	FPM 02050394
3a	Filter element O-Ring	2	O-R 3237 Ø 59,99 x 2,62	
3b	O-Ring for housing	2	O-R 4525 Ø 132,95 x 3,53	
3c	Oil drain plug	1	G 3/8" with seal	
3d	Bonded seal	2	01030058	01030046
3e	O-Ring	2	O-R 2050 Ø 12,42 x 1,78	
3f	Breather plug	2	01029436	
3g	By-pass plug O-Ring	1	O-R 3193 Ø 48,90 x 2,62	
4	Indicator connection plug	2	T2H	T2V
5	Housing spigot	1	01044108	
-	Indicators	1	See order table	

LMP430/431 spare parts

Length 5, 6



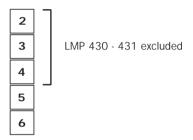
Pos.	Description	Qty	FILTER Series LMP 430/431 5 - 6	
1	Filter assembly	1	See order table	
2	Filter Element	1	See order table	
3	Seals kit	1	NBR	FPM
			02050395	02050396
3a	Filter element O Ding		O-R 3237	
Sa	Filter element O-Ring	2	Ø 59,99 x 2,62	
3b	O-Ring for housing	2	O-R	4525
Sb	O-Ring for housing		Ø 132,95 x 3,53	
3c	Oil drain plug	2	G 3/8" with seal	
3d	Bonded seal	2	01030058	01030046
3e	O-Ring	2 O-R 2050		2050
36	O-King		Ø 12,4	2 x 1,78
3f	Breather plug	1	01029436	
4	Indicator connection plug	2	T2H	T2V
5	Housing spigot	1	Spigot no by-pass 01044108 Spigot with by-pass 02001414	
6	Tube assembly	1	Length 5 - 02025041 Length 6 - 02025042	
-	Indicators	1	See ord	der table

Ordering information LMP400÷431

1 3 2 4 5 6 7 8 a Filter assembly **LMP** 400 **Example: LMP** 4 В Α G3 A10 Ν P01 2 6 4 7 8 b Filter Element **CU 400** Example: CU400 P01 4 A10 N



2 - Filter length



3 - Valves

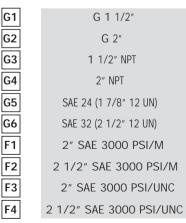
S	Without by-pass
В	With by-pass

4 - Seals

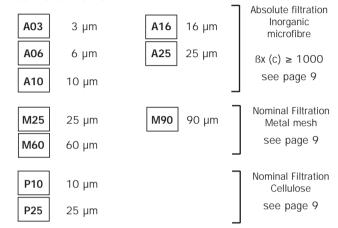
Α	NBR
V	FPM (series P10 - P25
	filter elements excluded)

5 - Connections

Туре



6 - Filter element



7 - Filter elements series

N	Δp 20 bar
W	Δp 20 bar (aqueous emulsions · water and glycol, not available for series P10 · P25 filter elements)

8 - Options

a - Filter

P0	MP Standard filters		
P0:	LMP 400 - 401 Maintenance from base of housing (lengths 5 and 6 only)		
PO	LMP 430 - 431 With internal tube for reduced flow rate		
Pxx	Customer request		
b - Filter elements			
PO	1 MP Standard filters		
Px	Customer request		

DIFFERENTIAL INDICATORS (see page 12)